

Purchase Order Receipt Listing

Thursday, February 12, 2015 10:44:14 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO27202 Receipt Dates from 2/12/2015 to 2/12/2015 All Line Item Types
All Item ID/GL/WOs / All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Rev Date/ Reev Emp	Rev Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor-ID/Vendor Name VU:-TW/M001 TW Metals												
PO27202	1			M4130NT0.750W.04 T 9		2/10/2015	2/12/2015	192.0000	\$2.75	0.0000	0	\$528.00
USD	No			4130 RD Tube .750 f x.049W m131541		200.0000	DCUSER		\$528.00	0.0000	0	
	2			M6061T6T0.625W.1 T 25		2/10/2015	2/12/2015	84.0000	\$5.19	0.0000	0	\$435.54
	No			6061-T6 RD Tube f 0.625 X.125W m131541		80.0000	DCUSER		\$435.54	0.0000	0	
	3			M6061T6T0.875W.0 T 58		2/10/2015	2/12/2015	84.0000	\$3.50	0.0000	0	\$294.00
	No			6061-T6 RD Tube f .875 x .058W m131541		80.0000	DCUSER		\$294.00	0.0000	0	
	4			71401-45		2/10/2015	2/12/2015	1.0000	\$0.00	0.0000	0	\$0.00
	No			PROCUREMENT QUALITY CLAUSES m131541		1.0000	DCUSER		\$0.00	0.0000	0	
										Total Received Quantity:		
										361.0000		
										Total Qty to Inspect (PO U/M):		
										0.0000		
										Total Reject Quantity:		
										0.0000		
										Total Receipt Value:		
										\$1,257.54		
										Total Balance Due Quantity:		
										8.0000		



O'Neal High-Performance Metals Group



Packing Slip

ORDER NO.: 80686189

FROM: CHIC

PAGE 1

CUST NUMBER: 1203820 NET WGT: 104.511 REQ.DATE: 02/10/15 CONFIRMED
SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/04/15
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO27202 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
0001 33047 CDS 4130 6736 3/4 X .049 17/24 FT

ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
200.000 FT	192.000 FT	192.000 FT	70.410	8

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: 9A991.d Export License: NLR
PO:49320212 HT:234383 PC: 8
MLT: MFG:GERMANY

Expiration Date: 0/00/00
CUSTOMER QTY: UOM
SLB/CL:1602335

2015-02-12

0002 42588 D6061-T6 5/8 OD X .125 WA

ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
84.000 FT	84.000 FT	84.000 FT	19.394	7

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR
PO:49323001 HT:F001777400002 PC: 7
MLT:UNITED STATES MFG:UNITED STATES

Expiration Date: 0/00/00
CUSTOMER QTY: UOM
SLB/CL:674188

2015-02-12

0003 42968 D6061-T6 7/8 OD X .058 WA

ORD QTY	INVOICE QTY	SHIPPED QTY	WT	PCS
84.000 FT	84.000 FT	84.000 FT	14.707	7

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR
PO:49325090 HT:F001797750001 PC: 7
MLT:UNITED STATES MFG:UNITED STATES

Expiration Date: 0/00/00
CUSTOMER QTY: UOM
SLB/CL:217577

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE
PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL
REVIEW.
<http://www.twmetals.com/invoice-terms.html>



O'Neal High-Performance Metals Group



**Packing
Slip**

ORDER NO.: 80686189

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PAGE 2

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DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/04/15
TERMS: NET 30 DAYS VIA: COMMON CARRIER
F.O.B.: SHIPPING POINT FREIGHT: PREPAID
CUST ORD NO.: PO27202 RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION WIDTH LENGTH
BROKERS KUEHNE AND NAGEL LTD

-----		PACK INFO -----				
AREA	TYPE OF PKG	PKGS	GRS WEIGHT	WIDTH	LENGTH	HGHT
ABF	CRTN STRAP TO BOARD	1.000	144.000		24.5000	
ABF	REDDICRATE	1.000			12.5000	
		2.000	144.000			

BY: EC
RT 000-

UNLOAD TYPE: NONE SPECIFIED

Sp 15-02-12

DATE SHIPPED _____

DATE FILLED _____

1

THANK YOU FOR THIS ORDER

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O'Neal High-Performance Metals Group



Packing Slip

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SOLD TO: SHIP TO:
DART AEROSPACE LTD DART AEROSPACE LTD
1270 ABERDEEN ST 1270 ABERDEEN ST
HAWKESBURY ON HAWKESBURY ON
CANADA CN K6A 1K7 ONTARIO CANADA CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 02/04/15
TERMS: NET 30 DAYS 235 TUBEWAY
F.O.B.: SHIPPING POINT CAROL STREAM IL 60188
CUST ORD NO.: PO27202
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Authorized Test Report Clerk  Date: 2/04/15

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON OUR WEBSITE FOR YOUR CAREFUL REVIEW.
<http://www.twmetals.com/invoice-terms.html>

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666

BENTELER 
Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1
EN 10204:2005-01

Benteler Steel/Tube GmbH - Postfach 1340 - 33043 Paderborn - Deutschland

TW Metals
The Aboretum, Suite 204
760 Constitution Drive
EXTON PA 19341
USA

DAS
14
9-89
15/02/14

AMS-T-6736B Type 1, ASTM-A 519-2006, MIL-T-6736B Type 1

Lieferbedingungen:
Terms of delivery:
Conditions de livraison:

Maße - Toleranzen:
Dimensions-tolerances:
Dimensions-tolérances:

Stahlsorte:
Steel grade:
Nuance d'acier:

Lieferzustand:
Delivery condition:
État de livraison:

Produktkennzeichnung:
Product marking:

Marquage du produit:

AZ = Atzinnenbeschriftung, Etching ink marking, Gravure à l'encre . FK = Farbkennzeichnung, colour marking, marquage par couleur . FS = Farbschablonierung, paint stencilling, marquage par peinture . FSD = Farbstrohdruker, Colour jet printer, imprimante à jet d'encre de couleur . LK = Laserkennzeichnung, Laser marking, Marquage laser . PKE = Etikettenkennzeichnung, tag marking, marquage sur étiquette . PS = Prägestempel, die stamp, marquage par poinçonnage . TS = Tintenstrahlkennzeichnung, ink jet spray marking, imprimante à jet d'encre .

Dokument-Nr.:
Document No.:
No. du document:

41-843619/001/P

Kunden-Bestell-Nr.:
Purchase Order No.:
No. de commande du client:

46002652 TW M49320212

Benteler Auftrags-Nr.:
Benteler Order No.:
No. de commande Benteler:

1602335

Versandanzeigen-Nr.:
Dispatch Note No.:
No. d'avis d'expédition:

4194649

Produkt: NAHTLOSE STAHLROHRE
Product: SEAMLESS STEEL TUBES
Produit: TUBES D'ACIER SANS Soudure

Prüf-Nr.:
Inspection No.:
No. du certificat:

Hersteller:
Manufacturer:
Producteur:
Warmrohrwerk/Zieherei
IDIN EN ISO 9001, ISO/TS-16949 CERTIFIED BY TÜEV NORD CERT
IPED 97/23/EC CERTIFIED BY TÜEV NORD SYSTEMS

Herstellerzeichen:
Manufacturer's brand:
Marque du producteur:



Stempel des Abnahmebeauftragten:
Stamp of the inspection representative:
Poinçon du contrôleur:

WA

Stahlschmelzungsverfahren:
Steelmaking process:
Procédé d'élaboration de l'acier:

ELEKTROSTAHL
ELECTRIC FURNACE
FOUR ELECTRIQUE

TW METALS

DEC 1 6 2014

ACCEPTED BY

1

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666

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BENTELER
Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
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Prüf-Nr.:
Inspection No.:
No. du certificat:

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Page:

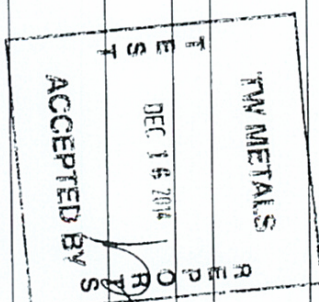
Pos.	Stück	Maße	Länge	Gewicht	Schmelzen-Nr.	Prüfdruck	Rohr-Nr.-Gruppe	Vielfachlängen
Item	Number	Dimensions	Length	Weight	Heat No.	Test pressure	Tube number group	Multiple lengths
Poste	Nombre	Dimensions	Longueur	Poids	No. de coulée	Pression d'épreuve	Série de no. des tubes	Longueurs multiples
0015	100	0.750" O.D. * 0.049" WT 17 FT - 24 FT	2398,29 feet	860 lbs	234383			

Schmelzenanalyse [%] / Heat analysis [%] / Analyse sur coulée [%]

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									
0015	234383	0,310	0,240	0,54	0,004	0,002	0,88	0,18	0,08	0,12

Produktanalyse [%] / Product analysis [%] / Analyse sur produit [%]

Pos.	Schmelzen-Nr.	C	SI	MN	P	S	CR	MO	NI	CU
Item	Heat No.									
Poste	No. de coulée									
0015	234383	0,320	0,240	0,55	0,005	0,002	0,87	0,18	0,07	0,11



Prüfergebnisse / Test results / Résultats des essais

Die Rohre wurden zerstörungsfrei geprüft:

ET-test: acc. to ASTM-A 450; ET - Test method: acc. to ASTM-E 309; for imperfections; PASSED

The tubes are non destructive tested:

ET-test: ET with rotating pancake coils; according to EN 10246-3; Imperfections;

Les tubes ont passé un essai non destructif:

Notch depth: 0,30 mm; notch width < = notch depth; notch length min. 2 x transducer width (max. 50 mm)

Augensichtkontrolle:

PASSED

Materialverwechslungsprüfung:

PASSED

Maßkontrolle:

PASSED

Visual inspection:

Material conformity test:

Dimensions examination:

Examen visuel:

Vérification de la nuance:

Vérification des dimensions:

Ergebnisse der mechanischen Prüfung / Results of mechanical testing / Résultats des essais mécaniques

Die Probenahme erfolgte an Vielfachlängen.

The sampling was carried out on multiple lengths.

L'échantillonnage était réalisé aux longueurs multiples.

Benteler Steel/Tube GmbH
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33043 Paderborn
Deutschland
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Zugversuch längs Vollprobe / Tensile test longitudinal Full section test specimen / Essai de traction longitudinale Eprouvette a section complete

Pos.	Proben-Nr.	Schmelzen-Nr.	Probenabmessung	Streckgrenze	Zugfestigkeit	Dehnung	Einschnürung
Item	Specimen No.	Heat No.	Specimen dimensions	Yield strength	Tensile strength	Elongation	Area reduction
Poste	No. de l'éprouvette	No. de coulée	Dimensions de l'éprouv.	Limite élastique	Résistance à la traction	Allongement	Coefficient de striction
Anforderungen							
Requirements				Rp 0,2 %	Rm	A2"	1. Formel
Exigences				mm	PSI	%	1. Formule
0015	000001	234383	19,00 X	1,20	122122	127923	18,00
0015	000002	234383	19,00 X	1,20	120817	126473	18,00
0015	000003	234383	19,00 X	1,20	121107	126618	20,00
0015	000004	234383	19,00 X	1,20	122412	127198	18,00
0015	000005	234383	19,00 X	1,20	120962	126328	18,00
0015	000006	234383	19,00 X	1,20	124007	127923	18,00
0015	000007	234383	19,00 X	1,20	121832	126763	18,00
0015	000008	234383	19,00 X	1,20	122267	126473	18,00
0015	000009	234383	19,00 X	1,20	122267	127633	18,00
0015	000010	234383	19,00 X	1,20	122992	128359	18,00
0015	000011	234383	19,00 X	1,20	123427	128504	18,00
0015	000012	234383	19,00 X	1,20	122992	127053	18,00
0015	000013	234383	19,00 X	1,20	123427	127778	18,00
0015	000014	234383	19,00 X	1,20	123282	127488	18,00

TW METALS
DEC 16 2014
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Randentkohlung / Surface decarburization / Décarburation superficielle

acc. MIL-T-6736B / AMS-T-6736B, decarburization outside max. 0.23 mm, decarburization outside + inside max. 0.305 mm

Vermerk / Remark / Remarque

Certificate remarks: The steel grade corresponds to MIL-T-6736B, AMS 6360M and AMS 6371K, material free from mercury contamination, FAR BAA: 52.225-1 CANNOT COMPLY, DFARS BAA: 252.225-7001 CAN COMPLY, FAR TAA: 52.225-5 CAN COMPLY, No weld repair has been carried out, Country of origin of the material and heat: Germany; see appendix page 1 of 1

Macroscopic examination: acc. to ASTM-E 381

Magnetic particle inspec.: acc. to AMS 2301 G/2640, on prematerial

Grain size: acc. to ASTM-E 112; Grain size and finer: 5; Grain size: Longitudinal structure micrography, On prematerial

Benteler Steel/Tube GmbH
Postfach 13 40
33043 Paderborn
Deutschland
Tel.: +49.5254.81-0 Fax: +49.5254.13666

BENTELER 
Steel/Tube

ABNAHMEPRÜFZEUGNIS EN 10204-3.1
INSPECTION CERTIFICATE EN 10204-3.1
CERTIFICAT DE RECEPTION EN 10204-3.1

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Document No.:
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41-843619/001/P

Prüf-Nr.:
Inspection No.:
No. du certificat:

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Verkäufer(in) / Sales personnel / Personne chargée : Mr. Schwarz, Tel.: 05254 81-204311, Fax: 204388



Paderborn Schloss Neuhaus, 18.11.2014, TEL.: 05254.81-201767 FAX: 05254.81-201752

Abnahmebeauftragter
Inspection representative

Contrôleur

THOMAS GOLLAN / TEM

Es wird bestätigt, daß die gelieferten Erzeugnisse den techn. Lieferbedingungen des Auftrages entsprechen. Dieses Dokument wurde mittels EDV erstellt und ist ohne Unterschrift rechtsgültig.
We certify that the supplied products comply with the order specification. This document was prepared by means of electronic data processing and is valid without signature.
Nous attestons que les produits livrés sont conformes aux stipulations de la commande. Ce document a été établi par traitement électronique de l'information et est valide sans signature.

Benteler Steel/Tube GmbH
Residenzstraße 1
33104 Paderborn
Germany
Tel.: 49 5254 81-0 Fax: 49 5254 13666

DAS
14
9-89
15/02/14

BENTELER
Steel/Tube

Abnahmeprüfzeugnis EN 10204-3.1 / Anhang
Inspection Certificate EN 10204.3.1 / appendix
Certificat de réception EN 10204-3.1 / appendice

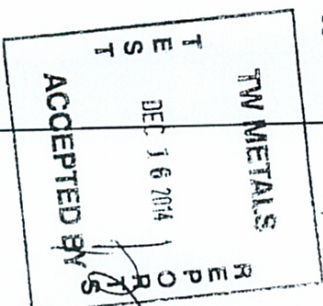
Dokument-Nr.
Document No.:
No. de document:

41-843619/001/P

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Halbzeuguntersuchung: Stahlsorte 4130 / Semi finished product examination: grade 4130 / Produit semi-fini: nuance 4130

Schmelzen-Nr. Heat No. Coulée No.	Position Item Poste	Korngröße Grain size Grosseur de grain (ASTM-E 112)	Härbarkeit (min. Anforderungen) Tremabilité (exigence min.) (ASTM-A 255)		Magnetpulverprüfung Magnetic particle inspection Essai à la poudre magnétique (AMS 2301G / 2640J)		Makroätzung Macrostructure test Essai de macrostructure (ASTM-E 381)		
		min. 5	J(5/16") min. 35 HRC	J(8/16") min. 28 HRC	F max. 0,34	S max. 0,25	max. S 2	max. R 1	max. C 2
234383	015	9	38	30	0,020	0,015	S 2	R 1	C 2
Decarburization Depth		Outside 0,020 mm Inside 0,020 mm							



M.A. Benteler
BENTELER
Steel/Tube GmbH

Der Stahl ist frei von Quecksilberverunreinigungen. / The steel is free of mercury contamination. / L'acier est libre des contaminations de mercure.

Paderborn Schloß Neuhaus, 18.11.2014
Tel.: (0)5254 81-201760 Fax: (0)5254 81-201752

Abnahmebeauftragter
Inspection representative
Contrôleur
Thomas Gollan

KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: M49323001-1		CUSTOMER PART NUMBER: 42588		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: 674188	LINE ITEM: 001	SHIP DATE: 12/10/2014	KAISER LOT NUMBER: F00177740	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 789.000 LB	QUANTITY: 284.000 PCS	B/L NUMBER: 610565	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
F00177740	0001	1	45.6	42.1	18.0	N/A	N/A	N/A
F00177740	0002	1	45.3	41.9	17.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D73825	.58	.27	.19	.05	1.00	.07	.05	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.625"; Wall: 0.125"; Round @
AMS-4082P AMS-WW-T-700/6B ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.

TW METALS	
TEST	REPORT
DEC 17 2014	
ACCEPTED BY	

Miscellaneous Notes

MANUFACTURED IN USA (CHANDLER, AZ) MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

Plant Serial: 00157627
Kaiser Order Number: 674188
Line Item: 001

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KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

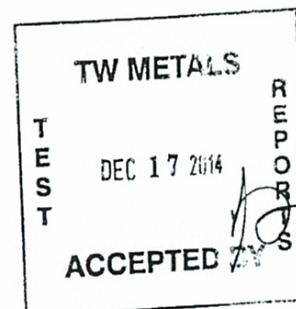
KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski



Plant Serial: 00157627
Kaiser Order Number: 674188
Line Item: 001

KAISER ALUMINUM FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49325090-1		CUSTOMER PART NUMBER: 42968		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: 217577	LINE ITEM: 001	SHIP DATE: 01/16/2015	KAISER LOT NUMBER: F00179775	ALLOY: 6061	TEMPER: T6
WEIGHT SHIPPED: 320.000 LB	QUANTITY: 152.000 PCS	B/L NUMBER: 217771	DIAM/DAF/THKNS:	WIDTH:	LENGTH: 12.000 FT
SHIP TO: TW METALS INC 235 WEST TUBEWAY DRIVE CAROL STREAM, IL 60188 USA			SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND
F00179775	0001	1	46.4	42.4	15.5	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D73888	.61	.32	.23	.05	.99	.07	.06	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.875"; Wall: 0.058"; Round @
AMS-4082P AMS-WW-T-700/6B ASTM B210-12 WW-T-700/6F
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
This Product Complies to FAR BAA, DFARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DFARS BAA
(DFARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
TRADE AGREEMENTS).

TW METALS	
TEST	REPORT
JAN 21 2015	
ACCEPTED BY	

KAISER

ALUMINUM

FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

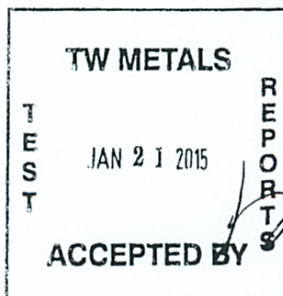
KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Linda Adkins, Quality Manager

Linda Adkins



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 4130 RD. 750 X .049W
 RECEIVED BY: Sonia P
 DATE: 15/02/12
 P/O#: 27202
 QUANTITY ORDERED: 192'
 THICKNESS ORDERED: .750 X .049W
 SHEET SIZE: _____
 MATERIAL CERT RECEIVED: yes
 QUANTITY RECEIVED: 192'
 THICKNESS RECEIVED: .750 X .049W
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
INCORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
INCORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
INCORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	
INCORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AM</u>	BY: _____
DATE: <u>15/02/14</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6061T6 RD. 6.25 X .125 W
 RECEIVED BY: Sonia P
 DATE: 15/02/14
 P/O#: 27202
 QUANTITY ORDERED: 84'
 THICKNESS ORDERED: .625 X .125 W
 SHEET SIZE: _____
 MATERIAL CERT RECEIVED: yes
 QUANTITY RECEIVED: 84'
 THICKNESS RECEIVED: .625 X .125 W
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
INCORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
INCORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
INCORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	
INCORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW				
	HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL				
SIZE OF TEST SAMPLE				
HARDNESS / DUROMETER READING				

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u>	BY: _____
DATE: <u>15/02/14</u>	DATE: _____

DAS
 14
 9-89

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 6061T6 .875 X .058W
 RECEIVED BY: Sonia P
 DATE: 15/02/12
 P/O#: 27202
 QUANTITY ORDERED: 84'
 THICKNESS ORDERED: .875 X .058W
 SHEET SIZE: _____
 MATERIAL CERT RECEIVED: YES
 QUANTITY RECEIVED: 84'
 THICKNESS RECEIVED: .875 X .058W
 SHEET SIZE RECEIVED: _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N	
INCORRECT FINISH	Y <input checked="" type="checkbox"/> N	
CORROSION	Y <input checked="" type="checkbox"/> N	
INCORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N	
INCORRECT MATERIAL	Y <input checked="" type="checkbox"/> N	
INCORRECT THICKNESS	Y <input checked="" type="checkbox"/> N	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>[Signature]</u>	BY: _____
DATE: <u>15/02/12</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO27202**

Purchase Order Date 1/23/2015

PO Print Date 1/23/2015

Page Number 1 of 2

Order From :
TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

Contact Name
Vendor Phone 585 768 5600

Ship To Contact
Ship To Phone
Ship Via: YRC COLLECT
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M4130NT0.750W.049	4130 RD Tube .750 x.049W	2/27/2015 Yes 2/27/2015		200.00 f	\$2.75	\$550.00
MATERIAL: AISI 4130N SEAMLESS STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361 6362/6373/6374							
Line Total:							\$550.00
2	M6061T6T0.625W.125	6061-T6 RD Tube 0.625 X.125W	2/27/2015 Yes 2/27/2015		80.00 f	\$5.19	\$414.80
MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241							
Line Total:							\$414.80

Note:

1/23/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO27202

Purchase Order Date 1/23/2015

PO Print Date 1/23/2015

Page Number 2 of 2

Order From :

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

VU-TWM001

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

131541

Contact Name

Vendor Phone

585 768 5600

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 30

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

3 M6061T6T0.875W.058 6061-T6 RD Tube .875 x .058W 2/27/2015 80.00
Yes f 2/27/2015

MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING
AS PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8 OR
AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR
ASTM B241

Line Total:

\$280.00

4 71401-45 PROCUREMENT QUALITY CLAUSES 2/27/2015 1.00
No 2/27/2015

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

Line Total:

\$0.00

PO Total:

\$1,244.80

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr:

1

Change Date:

1/23/2015